

Date: July 10, 2006

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**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 USC 371**

International Application No.: PCT/JP2004/018650

International Filing Date: December 14, 2004

Priority Date Claimed: January 21, 2004 and August 20, 2004

Title of Invention: PROCESS OF FORMING ULTRAFINE CRYSTAL LAYER, MACHINE COMPONENT HAVING ULTRAFINE CRYSTAL LAYER FORMED BY THE ULTRAFINE CRYSTAL LAYER FORMING PROCESS, PROCESS OF PRODUCING THE MACHINE COMPONENT, PROCESS OF FORMING NANOCRYSTAL LAYER, MACHINE COMPONENT HAVING NANOCRYSTAL LAYER FORMED BY THE NANOCRYSTAL LAYER FORMING PROCESS, AND PROCESS OF PRODUCING THE MACHINE COMPONENT

Applicant(s) for DO/EO/US: Minoru Umemoto et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. (X) This application claims the benefit of foreign filing priority under 35 U.S.C. 119(e) based on Japanese Patent Application No. 2004-013487, filed January 21, 2004, Japanese Patent Application Nos. 2004-240615 and 2004-240616, filed August 20, 2004.
2. (X) A copy of the International Application as filed (35 USC 371(c)(2))
 - a. (X) is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. () has been transmitted by the International Bureau.
 - c. () is not required, as the application was filed in the United States Receiving Office (RO/US).
3. () A copy of front page of International Publication No. WO 2005/033553.
4. (X) An English translation of the International Application (35 USC 371(c)(2)) in 55 pages of specification (with claims and abstract) and 16 sheets of drawings.
5. () Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3))
 - a. () are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. () have been transmitted by the International Bureau.
 - c. () have been made and incorporated in a preliminary amendment attached.
 - d. (X) have not been made and will not be made.
6. (X) **Signed** declaration of the inventor(s) (35 USC 371(c)(4)) and Power of Attorney.
7. (X) An Information Disclosure Statement under 37 CFR 1.97 and 1.98 with PTO-1449 form and five references.
8. (X) An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
9. (X) A FIRST preliminary amendment.
10. () A substitute specification with mark-up version.
11. (X) A copy of International Search Report by JPO.
12. () A copy of International Preliminary Examination Report by JPO.

U.S. Application No.

International Application No.

PCT/JP2004/018650

10/585707

Attorney Docket No.

KANEKO.014AUS

Date: July 10, 2006

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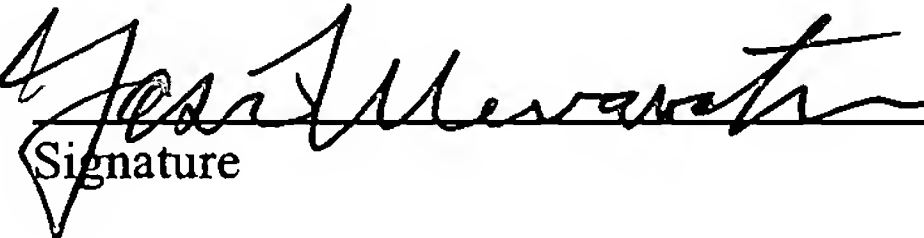
13. (X) A return prepaid postcard.
14. () Small entity status is hereby claimed.
15. (X) The following fees are submitted:

				FEEs
BASIC FEE (37 CFR 1.492(a)(5))				\$300
NATIONAL STAGE SEARCH FEE (1.492(b)(2))				\$400
NATIONAL STAGE EXAMINATION FEE (1.492(c)(2))				\$200
Surcharge of \$130 for furnishing the oath or declaration after 20/30 months from the earliest claimed priority date (37 CFR 1.492(e))				\$0
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total Claims	24 - 20 =	4 ×	\$50	\$200
Independent Claims	6 - 3 =	3 ×	\$200	\$600
Multiple dependent claims(s) (if applicable)			\$360	\$0
Application Size Fee (0 pages over 100 sheets)			\$0	\$0
TOTAL OF ABOVE CALCULATIONS				\$1,700
Reduction by 1/2 for filing by small entity (if applicable).				\$0
TOTAL NATIONAL FEE				\$1,700

16. (X) A check in the amount of \$1,700.00 to cover the above fees is enclosed.
17. (X) A check in the amount of \$40 for recording the enclosed assignment (37 CFR 1.21(h)).

SEND ALL CORRESPONDENCE TO:

MURAMATSU & ASSOCIATES
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Irvine, CA 92618
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Signature

Yasuo Muramatsu
Printed Name

38,684
Registration Number

17667 U.S. PTO



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07-12-08 10/585707

PETS

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10 JUL 2006

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July 10, 2006

Commissioner for Patents
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Attorney Docket No. : KANEKO.014AUS

Applicant(s) : Minoru Umemoto et al.

For : PROCESS OF FORMING ULTRAFINE
CRYSTAL LAYER, MACHINE
COMPONENT HAVING ULTRAFINE...

Attorney : Yasuo Muramatsu

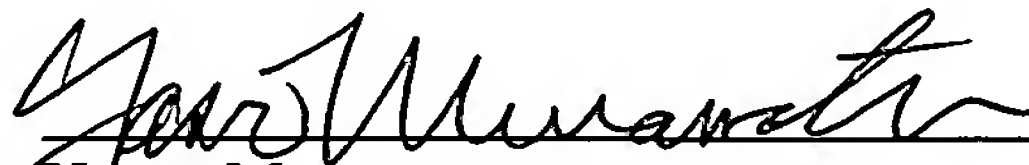
"Express Mail"
Mailing Label No. : EV735781933US

Date of Deposit : July 10, 2006

I hereby certify that the accompanying

Transmittal; a patent application in 55 pages of specification and 16 sheets of drawings; a check of \$1,700 for filing fee; signed declaration and power of attorney; International Search Report; copy of PCT Request; Preliminary Amendment; Request for approval of drawing changes; IDS with PTO-1449 form and four references; signed assignment with a cover sheet for recordation; a check of \$40 for assignment recordation; Return Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Yasuo Muramatsu

585707

KANEKO.014AUS

10 JUL 2006
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Minoru Umemoto et al.) Group Art Unit
Serial No. : New Application)
Filed : Concurrently Herewith)
For : PROCESS OF FORMING)
ULTRAFINE CRYSTAL LAYER, MACHINE)
COMPONENT HAVING ULTRAFINE CRYSTAL LAYER)
FORMED BY THE ULTRAFINE CRYSTAL LAYER)
FORMING PROCESS, PROCESS OF PRODUCING)
THE MACHINE COMPONENT, PROCESS OF FORMING)
NANOCRYSTAL LAYER, MACHINE COMPONENT)
HAVING NANOCRYSTAL LAYER FORMED BY THE)
NANOCRYSTAL LAYER FORMING PROCESS, AND)
PROCESS OF PRODUCING THE MACHINE COMPONENT)
Examiner : Unknown)

REQUEST FOR APPROVAL OF DRAWING CHANGES

Hon. Commissioner of Patents and Trademarks
Alexandria, VA 22313-1450

Dear Sir:

This is to request for approval of drawing changes in which
Figs. 5, 15 and 16 have been amended to be consistent with the U.S.
practice. Replacement sheets are also submitted.

Respectfully submitted,

MURAMATSU & ASSOCIATES

Dated: 7/10/06

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AMD-KN14.002
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